

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/669,162 B
Source: TELE
Date Processed by STIC: 7/28/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM; ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/669,162B

DATE: 07/28/2004

TIME: 15:47:40

Input Set : A:\228234_5.doc
 Output Set: N:\CRF4\07282004\J669162B.raw

3 <110> APPLICANT: Breaker, Ronald R.
 4 Nahvi, Ali
 5 Sudarsan, Narasimhan
 6 Ebert, Margaret S.
 7 Winkler, Wade
 8 Barrick, Jeffrey E.
 9 Wickiser, John K.
 11 <120> TITLE OF INVENTION: RIBOSWITCHES, METHODS FOR THEIR USE, AND
 12 COMPOSITIONS FOR USE WITH RIBOSWITCHES
 14 <130> FILE REFERENCE: 25006.0016U2
 16 <140> CURRENT APPLICATION NUMBER: 10/669,162B
 17 <141> CURRENT FILING DATE: 2003-09-22
 19 <150> PRIOR APPLICATION NUMBER: 60/412,468
 20 <151> PRIOR FILING DATE: 2002-09-20
 E--> 22 <160> NUMBER OF SEQ ID NOS: 377 *Found 410*
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
 Corrected Diskette Needed
(Pg. 1 - 7)

ERRORED SEQUENCES

154 <210> SEQ ID NO: 8
 155 <211> LENGTH: 36
 156 <212> TYPE: RNA
 157 <213> ORGANISM: Artificial Sequence
 159 <220> FEATURE:
 160 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 161 synthetic construct
 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature
 165 <222> LOCATION: 11, 17, 20, 25, 36
 166 <223> OTHER INFORMATION: n = g, a, c or u
 168 <220> FEATURE:
 169 <221> NAME/KEY: misc_feature
 170 <222> LOCATION: 6, 35
 171 <223> OTHER INFORMATION: r = a or g
 173 <220> FEATURE:
 174 <221> NAME/KEY: misc_feature
 175 <222> LOCATION: 1-3, 15, 31
 176 <223> OTHER INFORMATION: y = c or u
 178 <400> SEQUENCE: 8
 E--> 179 yyyucrgggc ngggygnaan ucccnaccgg yggurn
 181 <210> SEQ ID NO: 9
 182 <211> LENGTH: 51

*Please insert
 Numbering* → 36

RAW SEQUENCE LISTING

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TIME: 15:47:40

Input Set : A:\228234_5.doc
 Output Set: N:\CRF4\07282004\J669162B.raw

183 <212> TYPE: RNA
 184 <213> ORGANISM: Artificial Sequence
 186 <220> FEATURE:
 187 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 synthetic construct
 190 <220> FEATURE:
 191 <221> NAME/KEY: misc_feature
 192 <222> LOCATION: 1, 7-9, 13, 14, 16, 18, 25, 26, 32, 33, 37, 39, 42, 43, 50,
 193 51
 194 <223> OTHER INFORMATION: n = g, a, c or u
 196 <220> FEATURE:
 197 <221> NAME/KEY: misc_feature
 198 <222> LOCATION: 38, 44
 199 <223> OTHER INFORMATION: r = a or g
 201 <220> FEATURE:
 202 <221> NAME/KEY: misc_feature
 203 <222> LOCATION: 17, 34
 204 <223> OTHER INFORMATION: y = c or u
 206 <400> SEQUENCE: 9

✓ Insert
 ↓ =

E--> 207 ncuuaunng agnngnynga gggannggcc cnnyganrnc cnnrgcaacn n SAME error → 51

365 <210> SEQ ID NO: 18
 366 <211> LENGTH: 22
 367 <212> TYPE: RNA
 368 <213> ORGANISM: Arabidopsis thaliana
 370 <220> FEATURE:
 371 <221> NAME/KEY: misc_feature
 372 <222> LOCATION: 9
 373 <223> OTHER INFORMATION: d = g, a or u
 375 <220> FEATURE:
 376 <221> NAME/KEY: misc_feature
 377 <222> LOCATION: 1-7, 10-16
 378 <223> OTHER INFORMATION: n = g, a, c or u
 380 <400> SEQUENCE: 18

✓ Insert

SAME error → 22

E--> 381 nnnnnnnngdn nnnnnncuga ga _____
 1043 <210> SEQ ID NO: 60
 1044 <211> LENGTH: 23
 1045 <212> TYPE: RNA
 1046 <213> ORGANISM: Bacillus subtilis
 1048 <220> FEATURE:
 1049 <221> NAME/KEY: misc_feature
 1050 <222> LOCATION: 12-131
 1051 <223> OTHER INFORMATION: n = g, a, c or u
 1053 <220> FEATURE:
 1054 <221> NAME/KEY: misc_feature
 1055 <222> LOCATION: 2, 11, 52, 53, 70, 92, 132
 1056 <223> OTHER INFORMATION: r = a or g
 1058 <220> FEATURE:
 1059 <221> NAME/KEY: misc_feature
 1060 <222> LOCATION: 3, 135

RAW SEQUENCE LISTING

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Input Set : A:\228234_5.doc

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1061 <223> OTHER INFORMATION: w = a or u

1063 <220> FEATURE:

1064 <221> NAME/KEY: misc_feature

1065 <222> LOCATION: 64, 72, 93, 119, 136

1066 <223> OTHER INFORMATION: y = c or u

1068 <400> SEQUENCE: 60

Same error \Rightarrow 23

E--> 1069 rwagagggc rnnnnnnnann agua

1636 <210> SEQ ID NO: 98

1637 <211> LENGTH: 51

1638 <212> TYPE: RNA

1639 <213> ORGANISM: Bacillus subtilis

1641 <221> NAME/KEY: misc_feature

1642 <222> LOCATION: 8, 13, 14, 26, 32, 33, 37, 41, 42, 50, 51, 54, 55, 63, 67

1643 <223> OTHER INFORMATION: n = g, a, c or u

1645 <220> FEATURE:

1646 <221> NAME/KEY: misc_feature

1647 <222> LOCATION: 18, 38, 44, 53, 68, 71, 72, 78, 79, 84, 87

1648 <223> OTHER INFORMATION: r = a or g

1650 <220> FEATURE:

1651 <221> NAME/KEY: misc_feature

1652 <222> LOCATION: 1, 17, 25, 34, 60, 74, 75

1653 <223> OTHER INFORMATION: y = c or u

W--> 1655 <400> 98

E--> 1656 ycuaucnag agnnggyrga gggaynggcc cnnyganrcc nnrcrgcaacn n

Same error \Rightarrow 51

7181 <210> SEQ ID NO: 379

7182 <211> LENGTH: 30 *- Found 31*

7183 <212> TYPE: RNA

7184 <213> ORGANISM: Artificial Sequence

7186 <220> FEATURE:

7187 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =

7188 synthetic construct

7190 <220> FEATURE:

7191 <221> NAME/KEY: misc_feature

7192 <222> LOCATION: 3-4, 7-9, 12, 14-15, 21, 24, 28-30

7193 <223> OTHER INFORMATION: n = g, a, c or u

7195 <220> FEATURE:

7196 <221> NAME/KEY: misc_feature

7197 <222> LOCATION: 1, 10, 22, 27, 31

7198 <223> OTHER INFORMATION: r = a or g

7200 <400> SEQUENCE: 379

31 ✓

E--> 7201 ranncnnnr cngnnccgc nrcngurnnn r

7392 <210> SEQ ID NO: 388

7393 <211> LENGTH: 19 *- Found 18*

7394 <212> TYPE: RNA

7395 <213> ORGANISM: Artificial Sequence

7397 <220> FEATURE:

7398 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =

7399 synthetic construct

7401 <220> FEATURE:

RAW SEQUENCE LISTING
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TIME: 15:47:41

Input Set : A:\228234_5.doc
Output Set: N:\CRF4\07282004\J669162B.raw

7402 <221> NAME/KEY: misc_feature
 7403 <222> LOCATION: 1-3, 10-11, 14-17, 19
 7404 <223> OTHER INFORMATION: n = g, a, c or u
 7406 <220> FEATURE:
 7407 <221> NAME/KEY: misc_feature
 7408 <222> LOCATION: 18
 7409 <223> OTHER INFORMATION: r = a or g
 7411 <220> FEATURE:
 7412 <221> NAME/KEY: misc_feature
 7413 <222> LOCATION: 8
 7414 <223> OTHER INFORMATION: y = c or u
 7416 <400> SEQUENCE: 388
 --> 7417 nngugcylan nccnnnnrn ①18
 7498 <210> SEQ ID NO: 393
 7499 <211> LENGTH: 43 ①19
 7500 <212> TYPE: RNA
 7501 <213> ORGANISM: Artificial Sequence
 7503 <220> FEATURE:
 7504 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 synthetic construct
 7505 <220> FEATURE:
 7507 <220> FEATURE:
 7508 <221> NAME/KEY: misc_feature
 7509 <222> LOCATION: 1-8, 14-20, 21-22, 32-43
 7510 <223> OTHER INFORMATION: n = g, a, c or u
 7512 <220> FEATURE:
 7513 <221> NAME/KEY: misc_feature
 7514 <222> LOCATION: 9-10, 29
 7515 <223> OTHER INFORMATION: r = a or g
 7517 <220> FEATURE:
 7518 <221> NAME/KEY: misc_feature
 7519 <222> LOCATION: 23, 31
 7520 <223> OTHER INFORMATION: y = c or u
 7522 <400> SEQUENCE: 393
 --> 7523 nnnnnnnnrr, aggnnnnnnnn nnygccgarg ynnnnnnnnnn nnn ①44
 7567 <210> SEQ ID NO: 396
 7568 <211> LENGTH: 27 ①43
 7569 <212> TYPE: RNA
 7570 <213> ORGANISM: Artificial Sequence
 7572 <220> FEATURE:
 7573 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 synthetic construct
 7574 <220> FEATURE:
 7576 <220> FEATURE:
 7577 <221> NAME/KEY: misc_feature
 7578 <222> LOCATION: 1-11
 7579 <223> OTHER INFORMATION: n = g, a, c or u
 7581 <220> FEATURE:
 7582 <221> NAME/KEY: misc_feature
 7583 <222> LOCATION: 12
 7584 <223> OTHER INFORMATION: y = c or u

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/669,162B

DATE: 07/28/2004
TIME: 15:47:41

Input Set : A:\228234_5.doc
Output Set: N:\CRF4\07282004\J669162B.raw

7586 <400> SEQUENCE: 396
E--> 7587 nnnnnnnnnn nyuguca

27 - 17

VERIFICATION SUMMARY
 PATENT APPLICATION: US/10/669,162B

DATE: 07/28/2004
 TIME: 15:47:42

Input Set : A:\228234_5.doc
 Output Set: N:\CRF4\07282004\J669162B.raw

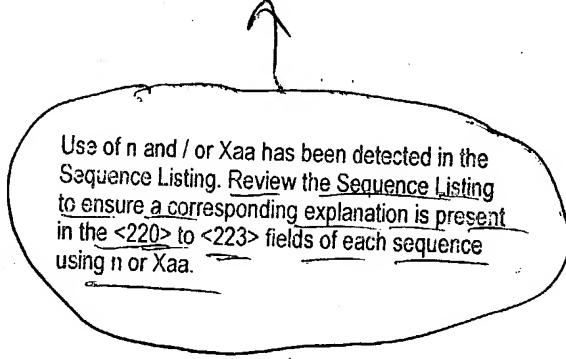
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
 M:341 Repeated in SeqNo=3
 L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
 M:341 Repeated in SeqNo=5
 L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
 L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
 L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
 L:179 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:36 SEQ:8 ✓
 L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
 L:207 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:51 SEQ:9 ✓
 L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
 M:341 Repeated in SeqNo=10
 L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
 M:341 Repeated in SeqNo=11
 L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
 L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
 M:341 Repeated in SeqNo=15
 L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 M:341 Repeated in SeqNo=16
 L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 M:341 Repeated in SeqNo=17
 L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
 L:381 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:22 SEQ:18 ✓
 L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
 L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
 L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
 M:341 Repeated in SeqNo=21
 L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
 M:341 Repeated in SeqNo=22
 L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
 M:341 Repeated in SeqNo=23
 L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 M:341 Repeated in SeqNo=24
 L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
 M:341 Repeated in SeqNo=25
 L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
 M:341 Repeated in SeqNo=26
 L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
 M:341 Repeated in SeqNo=27
 L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
 M:341 Repeated in SeqNo=28
 L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
 M:341 Repeated in SeqNo=29
 L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
 M:341 Repeated in SeqNo=30
 L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
 M:341 Repeated in SeqNo=31
 L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

VERIFICATION SUMMARY
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Input Set : A:\228234_5.doc
 Output Set: N:\CRF4\07282004\J669162B.raw

M:341 Repeated in SeqNo=32
 L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
 M:341 Repeated in SeqNo=33
 L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
 M:341 Repeated in SeqNo=34
 L:1069 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:60 ✓
 L:1655 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98 ✓
 L:1656 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:51 SEQ:98 ✓
 L:7201 M:252 E: No. of Seq. differs, <211> LENGTH:Input:30 Found:31 SEQ:379 ✓
 L:7417 M:254 E: No. of Bases conflict, LENGTH:Input:19 Counted:18 SEQ:388 ✓
 L:7417 M:252 E: No. of Seq. differs, <211> LENGTH:Input:19 Found:18 SEQ:388 ✓
 L:7523 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:44 SEQ:393 ✓
 L:7523 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:44 SEQ:393 ✓
 L:7587 M:254 E: No. of Bases conflict, LENGTH:Input:27 Counted:17 SEQ:396 ✓
 L:7587 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27 Found:17 SEQ:396 ✓
 L:22 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (377) Counted (410) ✓



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.